## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- (Original) An insulated flexible electrical circuit suitable for implantation comprising:
  - a first polyparaxylylene layer;
- a second polyparaxylylene that defines at least one aperture exposing an electrical conductor, and

said electrical conductor located between said first polyparaxylylene layer and said second polyparaxylylene layer.

- (Original) The electrical circuit of claim 1, wherein said polyparaxylylene is comprised of Parylene.
- (Original) The electrical circuit of claim 1, further comprising at least one polymer layer between said first polyparaxylylene layer and said second polyparaxylylene layer.
- (Original) The electrical circuit of claim 3, wherein said polymer is comprised of polyimide.
- (Original) The electrical circuit of claim 1, further comprising at least one polymer layer on said first polyparaxylylene layer or said second polyparaxylylene layer that is not located between said layers.
- (Original) The electrical circuit of claim 5, wherein said polymer is comprised of polyimide.

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- (Original) The electrical circuit of claim 1, further comprising a layer of a polymer between said first polyparaxylylene layer and said electrical conductor.
- (Original) The electrical circuit of claim 7, wherein said polymer is comprised of polyimide.
- (Original) The electrical circuit of claim 1, wherein said electrical conductor is suitable for stimulating a nerve.
- 10. (Original) The electrical circuit of claim 1, wherein said electrical conductor is suitable for sensing a signal from a nerve.
- 11. (Original) The electrical circuit of claim 1, wherein said second polyparaxylylene that defines at least one aperture further defines an electrode site suitable for detecting or transmitting signals to living tissue.
- (Original) The electrical circuit of claim 1, wherein said electrical conductor is comprised of a biocompatible material.
- 13. (Original) The electrical circuit of claim 12, wherein said biocompatible material is selected from at least one metal from the group of titanium, platinum, gold, or iridium.
- 14. (Original) The electrical circuit of claim 1, wherein said electrical conductor is at least partially coated with a biocompatible material.
- 15. (Original) The electrical circuit of claim 14, wherein said biocompatible material is comprised of titanium nitride.

## 16. - 25. (Cancelled)

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